

CLAIM AMENDMENTS

Claims 1-32 (previously cancelled)

Claim 33 (currently amended): A method of identifying the location of a ~~lesion~~ breast cancer cells within a breast duct or breast ductal network, said method comprising:

providing a compound comprising a targeting agent coupled to an identifying agent;
delivering said compound into at least one breast duct and allowing said delivered compound to specifically bind to at least one ~~lesion~~ breast cancer cell within at least one duct or ductal network;

washing said breast duct or ductal network with a solution to remove nonspecifically bound compound; and

detecting the presence of said identifying agent within said breast duct or ductal network;
wherein the presence of said identifying agent identifies the location of a ~~lesion~~ breast cancer cells within said a breast duct or breast ductal network.

Claim 34 (previously presented): A method as in claim 33, wherein delivering comprises non-percutaneous cannulation or catheterization of the breast duct.

Claim 35 (previously presented): A method as in claim 33, wherein the coupled compound is delivered to more than one duct on a breast.

Claim 36 (previously presented): A method as in claim 33, wherein the cells are identified for the purposes of excising tissue surrounding and including the cells.

Claim 37 (currently amended): A method as in claim 33, wherein said targeting agent comprises an agent selected from the group consisting of a protein; an antibody; an antibody fragment; a polynucleotide; a small molecule; a liposome; a ligand; a lipid; a peptide; and a receptor.

Claim 38 (previously presented): A method as in claim 33, wherein said identifying agent comprises an agent selected from the group consisting of a radioactive agent; a radio-opaque agent; a radiolucent agent; a fluorescent agent; a chemiluminescent agent; and a bioluminescent agent.

Claim 39 (currently amended): A method as in claim 33, wherein said detection of said ~~compound~~ identifying agent is through magnetic resonance imaging or positron emission tomography.

Claims 40-48 (cancelled)